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(54) MEMBRANE SEPARATION DEVICE

(57)Abstract:

PURPOSE: To suppress the accumulation of a deposit on the surface of a separation membrane and to keep flux or a blocking ratio high over a long period of time by forming many local water impermeable parts on a separation membrane.

CONSTITUTION: A large number of elongated strip like water impermeable parts 2 are formed on a separation membrane 1 in a dispersed state. In the formation of the separation membrane 1, at first, a water impermeable agent is applied to the surface of a membrane and heat-treated to partially form impermeable areas on the surface of the membrane to be formed into a film. When a water impermeable material is woven, a film is formed on laminated support fabric. By forming the impermeable areas to a water permeable material for allowing the water transmitted from the membrane to flow down, only when the membrane and the water permeable material are closely bonded at a time of pressure filtering, the impermeable areas are generated on the surface of the membrane coming into contact with the water permeable material positioned at impermeable areas. Since a large number of the local water impermeable parts 2 are formed on the surface of the separation

